

We kindly thank the editor and reviewers for their valuable comments. Reviewer 1 and 2 response have been done. All the modifications in the original manuscript has been highlighted, so two reviewed version has been attached. One inversion highlighted with the modifications and the other one is not highlighted.

A native speaker reviewed the entire manuscript.

Reviewer 1

A). Nice review on radiation protection for interventional cardiology. I think what is missing is a summary of regulatory limit on occupational radiation exposure and the current status with respect to the limit.

We thank the reviewer for his valuable and interesting comment. According to reviewer recommendation, a new table (table 2) has been added summarizing the regulatory limit on occupational radiation exposure. A reference has been added too.

B). Minor issues follows:

The following mistakes and fault have been corrected in the manuscript.

1) c. Technical approach: ``try to be avoided" remove ``try to"; 5) ``about half" -> ``about a half"; 6) ``childhood risk of cancer" -> ``risk of childhood cancer"; 7) ``In addition also having an additional dosimeter...": Check grammar / complete the sentence; 8) INNOVATIONS: ``new concepts... are being" -> ``new concepts... were being"; 9) ``resulting from routinely wearing heavy protective apparel" -> ``resulted from..."; 10) ``have demonstrated" -> ``have been demonstrated"; ``has proven" -> ``has been proven"; 11) Check section tags. Should ``Robotic percutaneous systems" be ``d" and ``Others" be ``e"? 12) ``vailale"->``available"? 13) ``A recently study" -> ``A recent study"; 14) ``a FDA black box warning" -> ``an..."; 15) ``proportionally with" -> ``proportionally to"; 16) ``one of the basic principles of..." -> ``one of the basic components of..."? 17) Figure 6 caption: ``extended reach" -> ``extended-reach". What is ``corthpack"?

Thank you very much for this comment to improve our presentation. All the minor commented by the reviewer have been addressed and highlighted in the manuscript.

C) ``extreme angulations are associated with high air kerma values" please provide reference;

The reference has been added.

D) ``Most modern systems have software magnification": Should point out that software magnification does not add clinical information. Hardware magnification should still be used when clinically indicated.

Thank you for the comment. The text has been slightly modified according to reviewer comment.

E) Decreasing frame rate to 7.5 fps ``has been shown to result in significant radiation dose reduction": Is there a reference of is it simply scaling down the radiation exposure?

Thank you again for this valuable comment to improve the manuscript. Some references have been added concordantly with reviewer recommendation.

Reviewer 2

A) Very interesting title and well-written review article. My suggestion is to reorder subheadings and to put the " PREGNANCY" part at the relatively latter of the article.

Thank you very much for the reviewer suggestion. We agree with the reviewer and the pregnancy subheading has been move to the latter part of the article.